

Bridge Inspection Report

B6877
I-540 NB-Seb. Co.
over
State Highway 22



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

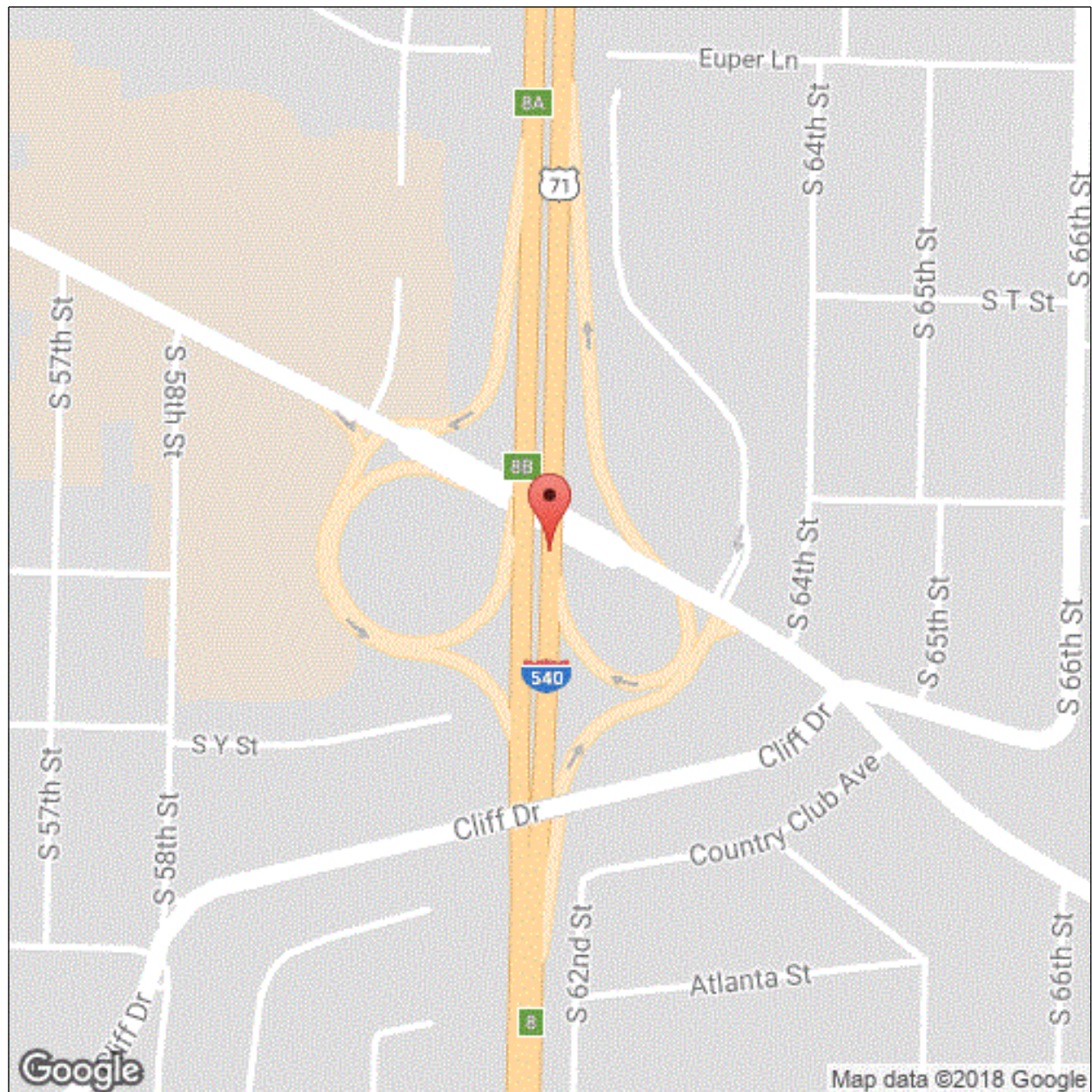
Structure Number: B6877

Inspection Date:

Facility Carried: I-540 NB-Seb. Co.

Bridge Inspection Report

Location Map



Latitude: 35.35925

Longitude: -94.36485

Inspector:

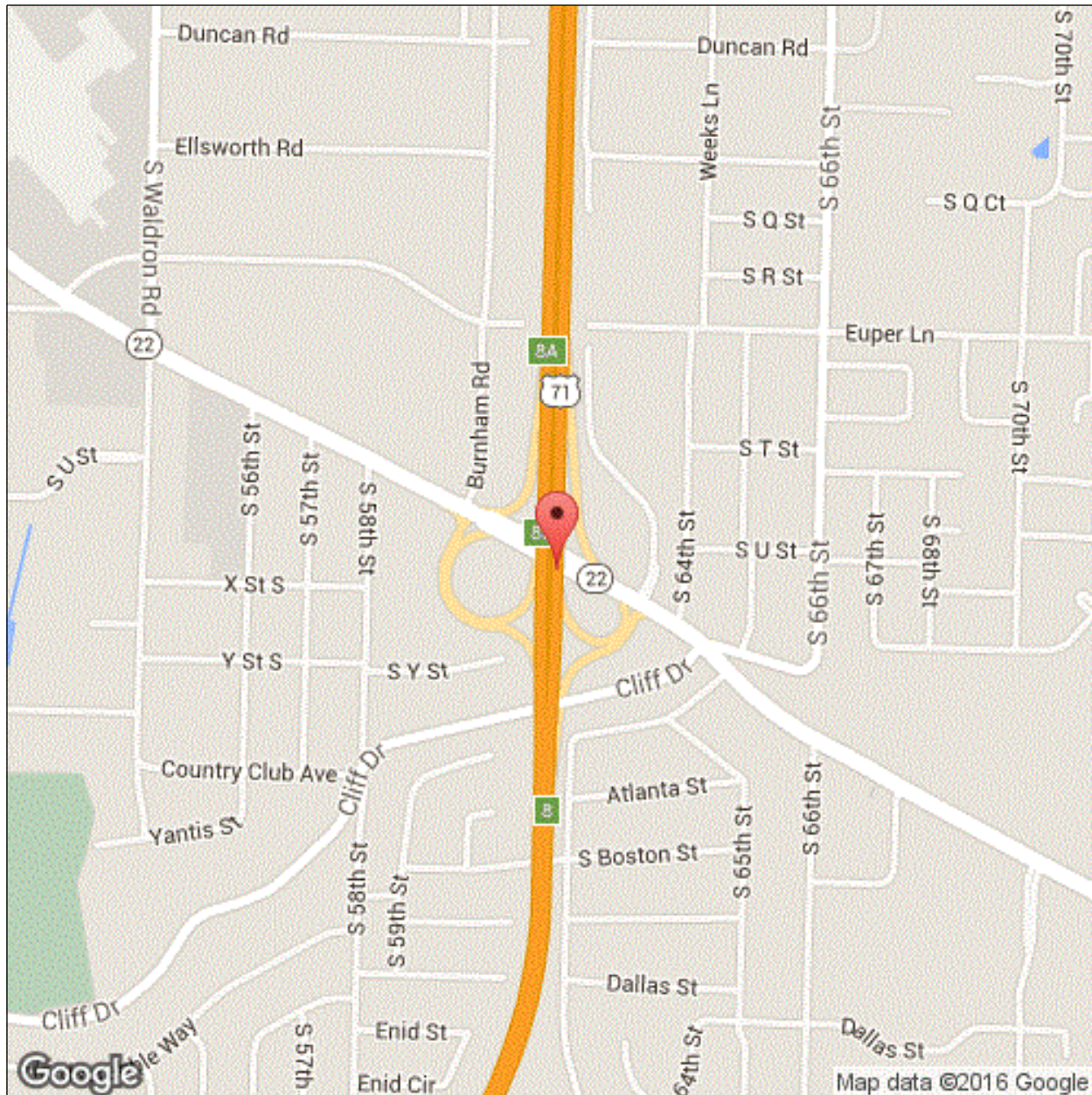
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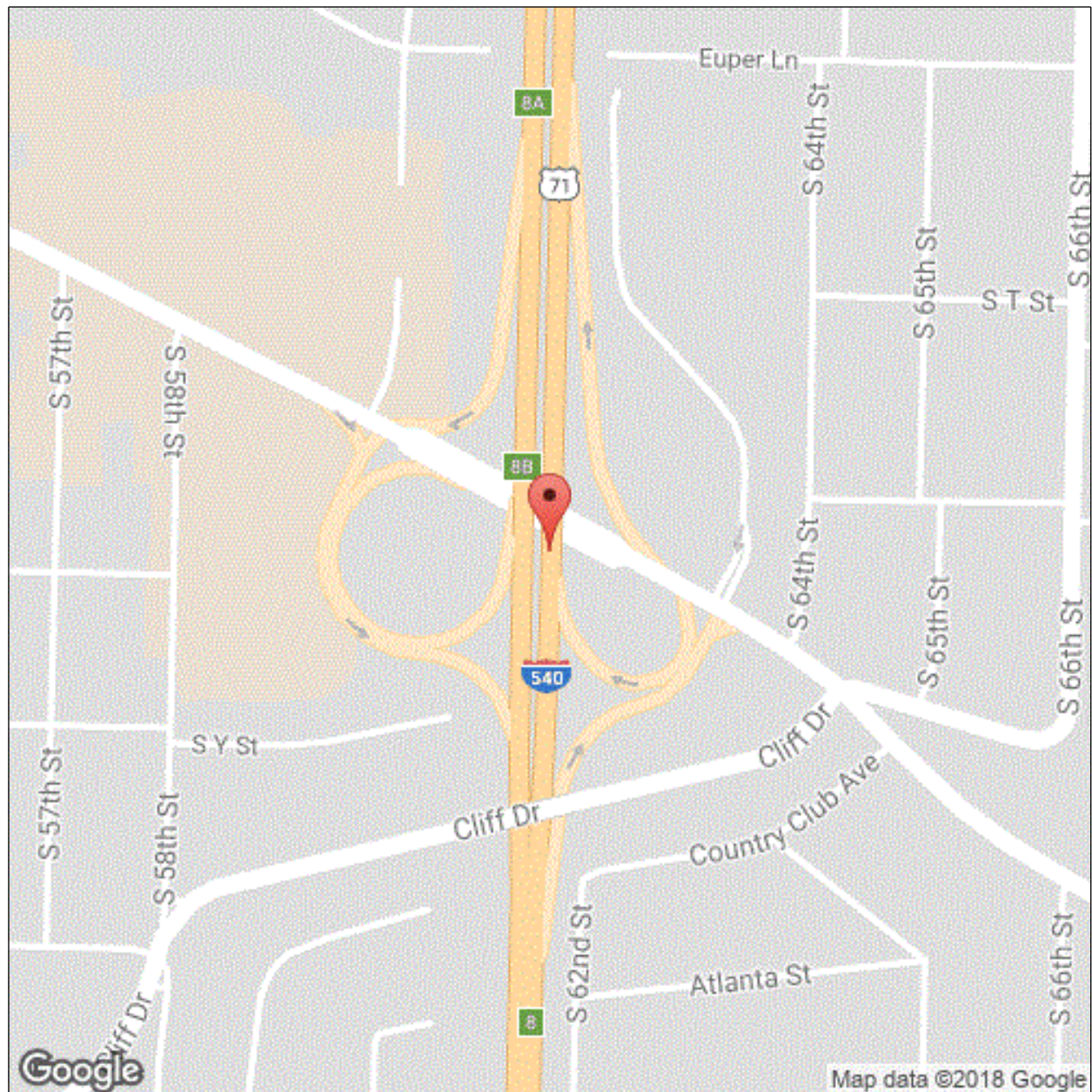
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Executive Summary

02/14/2018 JPB & SPC-Routine Inspection conducted on this date.
Vertical underclearances were actual field verified at this inspection.

02/09/2016 - JCJ & JML - Vertical underclearances were actual field verified at this inspection.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	02/14/2018
(8) STRUCTURE NUMBER	B6877	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 1 1 540 1	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	04 (3) COUNTY CODE 131	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	24060	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	State Highway 22	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	I-540 NB-Seb. Co.		
(9) LOCATION	6.73 Mi NE OK state line		
(11) MILEPOINT 6.730	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000540010 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.35925	(17) LONGITUDE -94.36485		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	7
A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous		(59) SUPERSTRUCTURE	8
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	8
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	N
A) KIND OF MATERIAL/DESIGN: 0 - Other		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN	2 (46) NUMBER OF APPROACH		
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE		
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT	2013 (106) YEAR RECONSTRUCTED	(31) DESIGN LOAD	6
(42) TYPE OF SERVICE	ON 6 UNDER 1	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES	ON 03 UNDER 05	(64) OPERATING RATING	60.0
(29) AVERAGE DAILY TRAFFIC	46000 (19) BYPASS DETOUR LENGTH	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC	2013	(66) INVENTORY RATING	36.0
(109) AVERAGE DAILY TRUCK TRAFFIC	12	(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.)	92.8 (49) STRUCTURE LENGTH (ft.)	(67) STRUCTURAL EVALUATION	8
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(68) DECK GEOMETRY	4
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	48.6	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	6
(52) DECK WIDTH, OUT-TO-OUT (ft.)	51.2	(71) WATERWAY ADEQUACY	N
(32) APPROACH ROADWAY WIDTH (ft.)	48.6	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	49.2	36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.90	36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.)	H 16.42	36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	H 15.0	(113) SCOUR CRITICAL BRIDGES	N
(56) MIN LATERAL UNDER CLEARANCE (ft.)	4.2	SUFFICIENCY RATING	0
		STATUS	96.0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11
(95) ROADWAY IMPROVEMENT COST (\$)		(100) STRAHNET HIGHWAY DESIGNATION	1
(96) TOTAL PROJECT COST		(101) PARALLEL STRUCTURE DESIGNATION	R
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT	73100 (115) YEAR OF FUTURE ADT	(103) TEMP STRUCTURE	
	2026	(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	4
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	N
		(111) PIER OR ABUTMENT PROTECTION	5
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

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Facility Carried: I-540 NB-Seb. Co.

Bridge Inspection Report

National Bridge Inventory

UNDER RECORD A

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I-540 NB
(3) COUNTY CODE	131	(8) STRUCTURE NUMBER	B6877
(4) PLACE CODE	24060	(9) LOCATION	6.73 Mi NE OK state line
(5) INV. ROUTE (ON/UNDER)	A 3 1 22 2	(11) MILEPOINT	3.700 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	SH 22 - Sec 1	(13A) LRS INVENTORY ROUTE	0000022010 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35. (17) LONGITUDE -94.364722222222
			3591666666667

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE, MAIN A) KIND OF MATERIAL/DESIGN: 4 - Steel continuous
 B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder

AGE OF SERVICE

(19) BYPASS DETOUR LENGTH	4	(30) YEAR OF AVERAGE DAILY TRAFFIC	2014
(27) YEAR BUILT	2013	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 03 UNDER 05	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	19500		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	16.6	(48) LENGTH OF MAXIMUM SPAN	92.8	(49) STRUCTURE LENGTH	188
(47) TOTAL HORIZONTAL CLEARANCE	40.7				

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	R	(110) DESIGNATED NATIONAL NETWORK	1

UNDER RECORD B

IDENTIFICATION

(1) STATE CODE	056 - Arkansas	(7) FACILITY CARRIED	I-540 NB
(3) COUNTY CODE	131	(8) STRUCTURE NUMBER	B6877
(4) PLACE CODE	24060	(9) LOCATION	6.73 Mi NE OK state line
(5) INV. ROUTE (ON/UNDER)	B 3 1 22 4	(11) MILEPOINT	3.700 (12) BASE HIGHWAY NETWORK 1
(6) FEATURES INTERSECTED	SH 22 - Sec 1	(13A) LRS INVENTORY ROUTE	0000022010 (13B) SUBROUTE NUMBER 00
		(16) LATITUDE	35. (17) LONGITUDE -94.364722222222
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(27) YEAR BUILT	2013	(42) TYPE OF SERVICE	ON 6 UNDER 1
(28) LANES	ON 03 UNDER 05	(109) AVERAGE DAILY TRUCK TRAFFIC	1
(29) AVERAGE DAILY TRAFFIC	19500		

GEOMETRIC DATA

(10) INV RTE, MIN VERT CLEARANCE	16.4	(48) LENGTH OF MAXIMUM SPAN	92.8	(49) STRUCTURE LENGTH	188
(47) TOTAL HORIZONTAL CLEARANCE	28.7				

CLASSIFICATION

(20) TOLL	3	(102) DIRECTION OF TRAFFIC	1
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	14	(103) TEMP STRUCTURE	
(100) STRAHNET HIGHWAY DESIGNATION	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(101) PARALLEL STRUCTURE DESIGNATION	R	(110) DESIGNATED NATIONAL NETWORK	1

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Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	9244	sq. ft.	9216	28	0	0
	-The deck has a new epoxy seal overlay that covers the entire driving surface. -There are transverse hairline cracks with efflorescence at variable spacing that are visible from the undersurface of both overhangs of the deck.						
1120 - Efflorescence/Rust Staining		28			28		
107 - Steel Open Girder/Beam	1- Ben.	1316	ft.	1316			
515 - Steel Protective Coating		12063	sq. ft.	12063			
205 - Reinforced Concrete Column	1- Ben.	4	each	4			
215 - Reinforced Concrete Abutment	1- Ben.	114	ft.	77	37	0	0
	-There are a few isolated vertical hairline cracks in the backwalls. Bent1 has 6 and Bent 3 has 7 vertical cracks on the back wall. -The Rt side of Bent 1 has a short duration horizontal hairline crack in the backwall. -There are transverse cracks on the top of the back walls at both bridge ends.						
1130 - Cracking (RC and Other)		37			37		
234 - Reinforced Concrete Pier Cap	1- Ben.	56	ft.	56			
300 - Strip Seal Expansion Joint	1- Ben.	102	ft.	102			
310 - Elastomeric Bearing	1- Ben.	21	each	21			
321 - Reinforced Concrete Approach Slab	1- Ben.	3402	sq. ft.	3402			
	-Both approach slabs have grind marks from the construction process.						
331 - Reinforced Concrete Bridge Railing	1- Ben.	376	ft.	322	54	0	0
	-The parapet walls have a few isolated vertical and horizontal hairline cracks.						
1130 - Cracking (RC and Other)		54			54		

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Pictures

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Bridge Inspection Report

Sketches

Inspector:

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Maintenance Needs